Frank Seebacher

List of Publications by Year
in descending order

163 papers	7,455 citations	66315 42 h-index	74108 75 g-index
164 all docs	164 docs citations	164 times ranked	6770 citing authors

#	Article	IF	Citations
1	Physiological plasticity increases resilience of ectothermic animals to climate change. Nature Climate Change, 2015, 5, 61-66.	8.1	678
2	Coadaptation: A Unifying Principle in Evolutionary Thermal Biology. Physiological and Biochemical Zoology, 2006, 79, 282-294.	0.6	248
3	Coping with Thermal Challenges: Physiological Adaptations to Environmental Temperatures. , 2012, 2, 2151-2202.		247
4	Evolution of Plasticity: Mechanistic Link between Development and Reversible Acclimation. Trends in Ecology and Evolution, 2016, 31, 237-249.	4.2	219
5	Oxygen- and capacity-limited thermal tolerance: blurring ecology and physiology. Journal of Experimental Biology, 2018, 221, .	0.8	204
6	Adaptive Thermoregulation in Endotherms May Alter Responses to Climate Change. Integrative and Comparative Biology, 2011, 51, 676-690.	0.9	196
7	Determining environmental causes of biological effects: the need for a mechanistic physiological dimension in conservation biology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1607-1614.	1.8	184
8	Physiological mechanisms of thermoregulation in reptiles: a review. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2005, 175, 533-541.	0.7	166
9	A review of thermoregulation and physiological performance in reptiles: what is the role of phenotypic flexibility?. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2005, 175, 453-461.	0.7	135
10	A new method to calculate allometric length-mass relationships of dinosaurs. Journal of Vertebrate Paleontology, 2001, 21, 51-60.	0.4	133
11	A falsification of the thermal specialization paradigm: compensation for elevated temperatures in Antarctic fishes. Biology Letters, 2005, 1, 151-154.	1.0	132
12	Thermal acclimation of interactions: differential responses to temperature change alter predatorâ€“prey relationship. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4058-4064.	1.2	130
13	Shelter Microhabitats Determine Body Temperature and Dehydration Rates of a Terrestrial Amphibian (Bufo marinus). Journal of Herpetology, 2002, 36, 69-75.	0.2	121
14	The effects of obesity on skeletal muscle contractile function. Journal of Experimental Biology, 2018, 221, .	0.8	121
15	Compensation for environmental change by complementary shifts of thermal sensitivity and thermoregulatory behaviour in an ectotherm. Journal of Experimental Biology, 2006, 209, 4869-4877.	0.8	117
16	Seasonal acclimatisation of muscle metabolic enzymes in a reptile(Alligator mississippiensis). Journal of Experimental Biology, 2003, 206, 1193-1200.	0.8	115
17	Antarctic fish can compensate for rising temperatures: thermal acclimation of cardiac performance in Pagothenia borchgrevinki. Journal of Experimental Biology, 2007, 210, 3068-3074.	0.8	113
18	Plasticity of Oxidative Metabolism in Variable Climates: Molecular Mechanisms. Physiological and Biochemical Zoology, 2010, 83, 721-732.	0.6	105

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19	Thyroid hormone actions are temperature-specific and regulate thermal acclimation in zebrafish (Danio rerio). BMC Biology, 2013, 11, 26.	1.7	94
20	Integrating Mitochondrial Aerobic Metabolism into Ecology and Evolution. Trends in Ecology and Evolution, 2021, 36, 321-332.	4.2	87
21	Evaluating Thermoregulation in Reptiles: The Fallacy of the Inappropriately Applied Method. Physiological and Biochemical Zoology, 2004, 77, 688-695.	0.6	86
22	What do warming waters mean for fish physiology and fisheries?. Journal of Fish Biology, 2020, 97, 328-340.	0.7	86
23	Dishonest Signals of Strength in Male Slender Crayfish (Cherax dispar) during Agonistic Encounters. American Naturalist, 2007, 170, 284-291.	1.0	85
24	Responses to temperature variation: integration of thermoregulation and metabolism in vertebrates. Journal of Experimental Biology, 2009, 212, 2885-2891.	0.8	85
25	Endothermy in birds: underlying molecular mechanisms. Journal of Experimental Biology, 2009, 212, 2328-2336.	0.8	82
26	Effect of the plastic pollutant bisphenol A on the biology of aquatic organisms: A metaâ€analysis. Global Change Biology, 2020, 26, 3821-3833.	4.2	82
27	Dinosaur body temperatures: the occurrence of endothermy and ectothermy. Paleobiology, 2003, 29, 105-122.	1.3	77
28	Differences in locomotor performance between individuals: importance of parvalbumin, calcium handling and metabolism. Journal of Experimental Biology, 2012, 215, 663-670.	0.8	69
29	Patterns of Body Temperature in Wild Freshwater Crocodiles, Crocodylus johnstoni: Thermoregulation versus Thermoconformity, Seasonal Acclimatization, and the Effect of Social Interactions. Copeia, 1997, 1997, 549.	1.4	68
30	Movement and Microhabitat Use of a Terrestrial Amphibian (Bufo marinus) on a Tropical Island: Seasonal Variation and Environmental Correlates. Journal of Herpetology, 1999, 33, 208.	0.2	66
31	The evolution of endothermy is explained by thyroid hormone-mediated responses to cold in early vertebrates. Journal of Experimental Biology, 2014, 217, 1642-1648.	0.8	62
32	Increased aggression during pregnancy comes at a higher metabolic cost. Journal of Experimental Biology, 2013, 216, 771-776.	0.8	61
33	Heat Transfer in a Microvascular Network: the Effect of Heart Rate on Heating and Cooling in Reptiles (Pogona barbata and Varanus varius). Journal of Theoretical Biology, 2000, 203, 97-109.	0.8	59
34	Capacity for thermal acclimation differs between populations and phylogenetic lineages within a species. Functional Ecology, 2012, 26, 1418-1428.	1.7	56
35	Behavioural Postures and the Rate of Body Temperature Change in Wild Freshwater Crocodiles, Crocodylus johnstoni. Physiological and Biochemical Zoology, 1999, 72, 57-63.	0.6	53
36	Body Temperature Null Distributions in Reptiles with Nonzero Heat Capacity: Seasonal Thermoregulation in the American Alligator (Alligator mississippiensis). Physiological and Biochemical Zoology, 2003, 76, 348-359.	0.6	53

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37	Temperature determines toxicity: Bisphenol A reduces thermal tolerance in fish. Environmental Pollution, 2015, 197, 84-89.	3.7	52
38	Physiology of invasion: cane toads are constrained by thermal effects on physiological mechanisms that support locomotor performance. Journal of Experimental Biology, 2011, 214, 1437-1444.	0.8	51
39	Field test of a paradigm: hysteresis of heart rate in thermoregulation by a free-ranging lizard (Pogona) Tj ETQq1 1 0.784314 rgBT /Ove	1.2	49
40	Regulation of thermal acclimation varies between generations of the shortâ€lived mosquitofish that developed in different environmental conditions. Functional Ecology, 2014, 28, 137-148.	1.7	49
41	Adapting to Climate Change. Science, 2009, 323, 876-877.	6.0	48
42	Thyroid hormone regulates cardiac performance during cold acclimation in Zebrafish (Danio rerio). Journal of Experimental Biology, 2013, 217, 718-25.	0.8	48
43	Thyroid hormone regulates muscle function during cold acclimation in zebrafish (Danio) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.8	48
44	The effect of obesity on the contractile performance of isolated mouse soleus, EDL, and diaphragm muscles. Journal of Applied Physiology, 2017, 122, 170-181.	1.2	48
45	Generalistâ€“specialist trade-off during thermal acclimation. Royal Society Open Science, 2015, 2, 140251.	1.1	46
46	Climate change impacts on animal migration. Climate Change Responses, 2015, 2, .	2.6	45
47	Differential effects of developmental thermal plasticity across three generations of guppies (Poecilia) Tj ETQq1 1 0.784314 rgBT /Ove	1.6	45
48	An alternative method for predicting body mass: the case of the Pleistocene marsupial lion. Paleobiology, 2003, 29, 403-411.	1.3	44
49	Individual recognition in crayfish (Cherax dispar): the roles of strength and experience in deciding aggressive encounters. Biology Letters, 2007, 3, 471-474.	1.0	44
50	Striped marsh frog (Limnodynastes peronii) tadpoles do not acclimate metabolic performance to thermal variability. Journal of Experimental Biology, 2011, 214, 1965-1970.	0.8	44
51	Exercise changes behaviour. Functional Ecology, 2014, 28, 652-659.	1.7	44
52	Phenotypic flexibility in the metabolic response of the limpet Cellana tramoserica to thermally different microhabitats. Journal of Experimental Marine Biology and Ecology, 2006, 335, 131-141.	0.7	43
53	Transient Receptor Potential Ion Channels Control Thermoregulatory Behaviour in Reptiles. PLoS ONE, 2007, 2, e281.	1.1	42
54	Low Levels of Physical Activity Increase Metabolic Responsiveness to Cold in a Rat (Rattus fuscipes). PLoS ONE, 2010, 5, e13022.	1.1	41

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55	Embryonic Developmental Temperatures Modulate Thermal Acclimation of Performance Curves in Tadpoles of the Frog Limnodynastes peronii. PLoS ONE, 2014, 9, e106492.	1.1	39
56	Biochemical acclimation of metabolic enzymes in response to lowered temperature in tadpoles of Limnodynastes peronii. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2004, 137, 731-738.	0.8	38
57	Costs and benefits of increased weapon size differ between sexes of the slender crayfish,Cherax dispar. Journal of Experimental Biology, 2009, 212, 853-858.	0.8	38
58	Diving Behaviour of a Reptile (Crocodylus johnstoni) in the Wild: Interactions with Heart Rate and Body Temperature. Physiological and Biochemical Zoology, 2005, 78, 1-8.	0.6	37
59	How well do muscle biomechanics predict whole-animal locomotor performance? The role of Ca2+ handling. Journal of Experimental Biology, 2012, 215, 1847-1853.	0.8	37
60	Physiological mechanisms underlying animal social behaviour. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160231.	1.8	37
61	Ontogenetic changes of swimming kinematics in a semi-aquatic reptile (Crocodylus porosus). Australian Journal of Zoology, 2003, 51, 15.	0.6	36
62	Changes in heart rate are important for thermoregulation in the varanid lizard Varanus varius. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2001, 171, 395-400.	0.7	35
63	Turtles (Chelodina longicollis) regulate muscle metabolic enzyme activity in response to seasonal variation in body temperature. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2004, 174, 205-210.	0.7	34
64	Molecular mechanisms underlying the development of endothermy in birds (Gallus gallus): a new role of PGC-1Î±?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R2315-R2322.	0.9	33
65	Beneficial acclimation: sex specific thermal acclimation of metabolic capacity in the striped marsh frog (Limnodynastes peronii). Journal of Experimental Biology, 2007, 210, 2932-2938.	0.8	32
66	Thermal Acclimation and Regulation of Metabolism in a Reptile (Crocodylus porosus): The Importance of Transcriptional Mechanisms and Membrane Composition. Physiological and Biochemical Zoology, 2009, 82, 766-775.	0.6	32
67	Sustained Swimming Performance in Crocodiles (Crocodylus porosus): Effects of Body Size and Temperature. Journal of Herpetology, 2003, 37, 363-368.	0.2	31
68	<scp>UV</scp>â€B radiation interacts with temperature to determine animal performance. Functional Ecology, 2016, 30, 584-595.	1.7	31
69	DNA methyltransferase 3a mediates developmental thermal plasticity. BMC Biology, 2021, 19, 11.	1.7	30
70	Immune-Challenged Fish Up-Regulate Their Metabolic Scope to Support Locomotion. PLoS ONE, 2016, 11, e0166028.	1.1	30
71	Redistribution of blood within the body is important for thermoregulation in an ectothermic vertebrate (Crocodylus porosus). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2007, 177, 841-848.	0.7	29
72	Synergistic interaction between UVB radiation and temperature increases susceptibility to parasitic infection in a fish. Biology Letters, 2014, 10, 20140449.	1.0	29

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73	One hundred research questions in conservation physiology for generating actionable evidence to inform conservation policy and practice. , 2021, 9, coab009.		29
74	Injury-mediated decrease in locomotor performance increases predation risk in schooling fish. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160232.	1.8	28
75	Warming increases the cost of growth in a model vertebrate. Functional Ecology, 2019, 33, 1256-1266.	1.7	28
76	The effect of heat transfer mode on heart rate responses and hysteresis during heating and cooling in the estuarine crocodileCrocodylus porosus. Journal of Experimental Biology, 2003, 206, 1143-1151.	0.8	27
77	Learning to hunt: the role of experience in predator success. Behaviour, 2010, 147, 223-233.	0.4	27
78	Age-related changes in isolated mouse skeletal muscle function are dependent on sex, muscle, and contractility mode. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R296-R314.	0.9	27
79	Plasticity in body temperature and metabolic capacity sustains winter activity in a small endotherm (Rattus fuscipes). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 155, 383-391.	0.8	26
80	Thermal acclimation, mitochondrial capacities and organ metabolic profiles in a reptile (Alligator) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 Physiology, 2011, 181, 53-64.	0.7	26
81	Sex cells in changing environments: can organisms adjust the physiological function of gametes to different temperatures?. Global Change Biology, 2012, 18, 1797-1803.	4.2	26
82	Skeletal muscle contractile function predicts activity and behaviour in zebrafish. Journal of Experimental Biology, 2015, 218, 3878-3884.	0.8	26
83	The evolution of metabolic regulation in animals. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 195-203.	0.7	26
84	Facultative sex allocation in the viviparous lizard Eulamprus tympanum, a species with temperature-dependent sex determination. Australian Journal of Zoology, 2003, 51, 367.	0.6	25
85	Energetic cost determines voluntary movement speed only in familiar environments. Journal of Experimental Biology, 2016, 219, 1625-1631.	0.8	25
86	Epigenetics of Social Behaviour. Trends in Ecology and Evolution, 2019, 34, 818-830.	4.2	25
87	Reframing conservation physiology to be more inclusive, integrative, relevant and forward-looking: reflections and a horizon scan. , 2020, 8, coaa016.		25
88	Energetic cost of a meal in a frequent feeding lizard. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 135, 377-382.	0.8	24
89	Prostaglandins are important in thermoregulation of a reptile (Pogona vitticeps). Proceedings of the Royal Society B: Biological Sciences, 2003, 270, S50-3.	1.2	24
90	Transition from ectothermy to endothermy: the development of metabolic capacity in a bird (Gallus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	24

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91	Variation in expression of calcium-handling proteins is associated with inter-individual differences in mechanical performance of rat (Rattus norvegicus) skeletal muscle. Journal of Experimental Biology, 2011, 214, 3542-3548.	0.8	24
92	Thermal adaptation in endotherms: climate and phylogeny interact to determine populationâ€level responses in a wild rat. Functional Ecology, 2012, 26, 390-398.	1.7	24
93	Early effects of ageing on the mechanical performance of isolated locomotory (EDL) and respiratory (diaphragm) skeletal muscle using the work-loop technique. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R670-R684.	0.9	24
94	Obesity-induced decreases in muscle performance are not reversed by weight loss. International Journal of Obesity, 2017, 41, 1271-1278.	1.6	24
95	Differences in oxidative status explain variation in thermal acclimation capacity between individual mosquitofish (Gambusia holbrooki). Functional Ecology, 2020, 34, 1380-1390.	1.7	24
96	Early exposure to ultraviolet-B radiation decreases immune function later in life. , 2016, 4, cow037.		23
97	Plasticity of muscle function in a thermoregulating ectotherm (Crocodylus porosus): biomechanics and metabolism. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1024-R1032.	0.9	22
98	Aggressionâ€induced fin damage modulates tradeâ€offs in burst and endurance swimming performance of mosquitofish. Journal of Zoology, 2011, 283, 243-248.	0.8	22
99	Geographical bias in physiological data limits predictions of global change impacts. Functional Ecology, 2021, 35, 1572-1578.	1.7	22
100	Histone deacetylase activity modulates exercise-induced skeletal muscle plasticity in zebrafish (Danio rerio). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 313, R35-R43.	0.9	21
101	Ultraviolet B radiation alters movement and thermal selection of zebrafish (Danio rerio). Biology Letters, 2016, 12, 20160258.	1.0	20
102	Bisphenols impact hormone levels in animals: A meta-analysis. Science of the Total Environment, 2022, 828, 154533.	3.9	20
103	Integration of autonomic and local mechanisms in regulating cardiovascular responses to heating and cooling in a reptile (Crocodylus porosus). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2004, 174, 577-85.	0.7	19
104	Novel reptilian uncoupling proteins: molecular evolution and gene expression during cold acclimation. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 979-985.	1.2	19
105	Advantage to lower body temperatures for a small mammal (Rattus fuscipes) experiencing chronic cold. Journal of Mammalogy, 2010, 91, 1197-1204.	0.6	19
106	The cost of muscle power production: muscle oxygen consumption per unit work increases at low temperatures inXenopus laevisDaudin. Journal of Experimental Biology, 2014, 217, 1940-5.	0.8	19
107	Is Endothermy an Evolutionary By-Product?. Trends in Ecology and Evolution, 2020, 35, 503-511.	4.2	19
108	Physiological thermoregulation in a crustacean? Heart rate hysteresis in the freshwater crayfish Cherax destructor. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2004, 138, 399-403.	0.8	17

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109	AMP-activated protein kinase controls metabolism and heat production during embryonic development in birds. Journal of Experimental Biology, 2010, 213, 3167-3176.	0.8	17
110	The impacts of climate change on the biomechanics of animals. , 2020, 8, coz102.		17
111	Warm temperature acclimation impacts metabolism of paralytic shellfish toxins from Alexandrium minutum in commercial oysters. Global Change Biology, 2015, 21, 3402-3413.	4.2	16
112	Developmental thermal plasticity of prey modifies the impact of predation. Journal of Experimental Biology, 2015, 218, 1402-9.	0.8	16
113	Physiological and behavioural responses to seasonal changes in environmental temperature in the Australian spiny crayfish Euastacus sulcatus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 653-660.	0.7	15
114	Morphological differences between habitats are associated with physiological and behavioural trade-offs in stickleback (Gasterosteus aculeatus). Royal Society Open Science, 2016, 3, 160316.	1.1	15
115	Thermal biology of a viviparous lizard with temperature-dependant sex determination. Journal of Thermal Biology, 2006, 31, 292-301.	1.1	14
116	Can Phenotypic Plasticity Facilitate the Geographic Expansion of the TilapiaOreochromis mossambicus?. Physiological and Biochemical Zoology, 2008, 81, 733-742.	0.6	14
117	Daily torpor reduces mass and changes stress and power output of soleus and EDL muscles in the Djungarian hamster, Phodopus sungorus. Journal of Experimental Biology, 2011, 214, 2896-2902.	0.8	14
118	Trying to fit in: are patterns of orientation of a keystone grazer set by behavioural responses to ecosystem engineers or wave action?. Oecologia, 2014, 174, 67-75.	0.9	14
119	UV-B exposure reduces locomotor performance by impairing muscle function but not mitochondrial ATP production. Journal of Experimental Biology, 2015, 219, 96-102.	0.8	14
120	Plasticity of Performance Curves Can Buffer Reaction Rates from Body Temperature Variation in Active Endotherms. Frontiers in Physiology, 2017, 8, 575.	1.3	14
121	Histone deacetylase activity mediates thermal plasticity in zebrafish (Danio rerio). Scientific Reports, 2019, 9, 8216.	1.6	14
122	Importance of adipocyte browning in the evolution of endothermy. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190134.	1.8	14
123	Bisphenols alter thermal responses and performance in zebrafish (Danio rerio). , 2021, 9, coaa138.		14
124	Thermal sensitivity of heart rate and insensitivity of blood pressure in the Antarctic notothenioid fish Pagothenia borchgrevinki. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2005, 175, 97-105.	0.7	13
125	Parental exposure modulates the effects of UV â€B on offspring in guppies. Functional Ecology, 2017, 31, 1082-1090.	1.7	13
126	The physiology of leadership in fish shoals: leaders have lower maximal metabolic rates and lower aerobic scope. Journal of Zoology, 2018, 305, 73-81.	0.8	13

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127	Transgenerational effects and acclimation affect dispersal in guppies. Functional Ecology, 2018, 32, 1819-1831.	1.7	13
128	Diet and temperature modify the relationship between energy use and ATP production to influence behavior in zebrafish (Danio rerio). Ecology and Evolution, 2021, 11, 9791-9803.	0.8	13
129	The active metabolic rate predicts a male spider's proximity to females and expected fitness. Biology Letters, 2013, 9, 20121164.	1.0	12
130	Building a dishonest signal: the functional basis of unreliable signals of strength in males of the two-toned fiddler crab, Uca vomeris. Journal of Experimental Biology, 2015, 218, 3077-82.	0.8	12
131	Temperature modulates the effects of predation and competition on mosquito larvae. Ecological Entomology, 2016, 41, 668-675.	1.1	12
132	Thermal conditions experienced during differentiation affect metabolic and contractile phenotypes of mouse myotubes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R457-R465.	0.9	12
133	The effects of 8 weeks voluntary wheel running on the contractile performance of isolated locomotory (soleus) and respiratory (diaphragm) skeletal muscle during early ageing. Journal of Experimental Biology, 2017, 220, 3733-3741.	0.8	12
134	Plasticity of protective mechanisms only partially explains interactive effects of temperature and UVR on upper thermal limits. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 190, 75-82.	0.8	11
135	Living in flowing water increases resistance to ultraviolet B radiation. Journal of Experimental Biology, 2017, 220, 582-587.	0.8	11
136	Plasticity of Performance Curves in Ectotherms: Individual Variation Modulates Population Responses to Environmental Change. Frontiers in Physiology, 2021, 12, 733305.	1.3	11
137	Endocrine disruption from plastic pollution and warming interact to increase the energetic cost of growth in a fish. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212077.	1.2	9
138	Molecular Detection of theSxtaGene from Saxitoxin-ProducingAlexandrium minutumin Commercial Oysters. Journal of Shellfish Research, 2016, 35, 169-177.	0.3	8
139	Cost of transport is a repeatable trait but is not determined by mitochondrial efficiency in zebrafish (Danio rerio). Journal of Experimental Biology, 2019, 222, .	0.8	8
140	Cardiovascular mechanisms during thermoregulation in reptiles. International Congress Series, 2004, 1275, 242-249.	0.2	7
141	Physiology can predict animal activity, exploration, and dispersal. Communications Biology, 2022, 5, 109.	2.0	7
142	Mismatched light and temperature cues disrupt locomotion and energetics via thyroid-dependent mechanisms. , 2020, 8, coaa051.		6
143	Facing the Heat: Does Desiccation and Thermal Stress Explain Patterns of Orientation in an Intertidal Invertebrate?. PLoS ONE, 2016, 11, e0150200.	1.1	6
144	Thyroid hormone influences muscle mechanics in carp (Cyprinus carpio) independently from SERCA activity. Journal of Experimental Biology, 2016, 219, 2806-2808.	0.8	5

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145	Zebrafish (Danio rerio)as a Model for Sprint Exercise Training. Zebrafish, 2019, 16, 1-7.	0.5	5
146	Thermal adaptation in the honeybee (Apis mellifera) via changes to the structure of malate dehydrogenase. Journal of Experimental Biology, 2020, 223, .	0.8	5
147	Rates of warming impact oxidative stress in zebrafish (Danio rerio). Journal of Experimental Biology, 2022, 225, .	0.8	5
148	Acclimation, acclimatization, and seasonal variation in amphibians and reptiles. , 2016, , 41-62.		4
149	Casual movement speed but not maximal locomotor capacity predicts mate searching success. Journal of Evolutionary Biology, 2018, 31, 438-445.	0.8	4
150	Social rank and not physiological capacity determines competitive success in zebrafish (Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.1	4
151	At the Crocodilian Heart of the Matter. Science, 2000, 289, 1687c-1688.	6.0	4
152	Acclimation, acclimatization, and seasonal variation in amphibians and reptiles. , 2017, , 41-62.		4
153	Orientation in a keystone grazer: interactions between habitat and individual identity drive patterns of resting behaviour. Marine Ecology - Progress Series, 2015, 522, 145-156.	0.9	4
154	Two Locomotor Traits Show Different Patterns of Developmental Plasticity Between Closely Related Clonal and Sexual Fish. Frontiers in Physiology, 2021, 12, 740604.	1.3	4
155	Increased wave action promotes muscle performance but increasing temperatures cause a tenacityâ€“endurance trade-off in intertidal snails (Nerita atramentosa). , 2019, 7, coz039.		3
156	Increased physical activity does not improve obesity-induced decreases in muscle quality in zebrafish (Danio rerio). Journal of Applied Physiology, 2019, 127, 1802-1808.	1.2	3
157	Water flow and temperature interact to determine oxidative status, swimming performance, and dispersal of mosquitofish (Gambusia holbrooki). Freshwater Biology, 2021, 66, 1366-1374.	1.2	2
158	Evolution of plasticity: metabolic compensation for fluctuating energy demands at the origin of life. Journal of Experimental Biology, 2022, 225, .	0.8	2
159	Collective Behaviour: Physiology Determines Position. Current Biology, 2018, 28, R351-R354.	1.8	1
160	Elevating the impact of conservation physiology by building a community devoted to excellence, transparency, ethics, integrity and mutual respect. , 2022, 10, coac015.		1
161	Addressing new challenges in climate change research by highlighting biological complexity. Climate Change Responses, 2014, 1, .	2.6	0
162	Inter-individual variation partially explains patterns of orientation on steeply sloped substrata in a keystone grazer, the limpet Cellana tramoserica. Aquatic Ecology, 2015, 49, 189-197.	0.7	0

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163	It's not where you are, it's what you do after that matters: Tide-in patterns of orientation do not predict where or when limpets forage. Journal of Experimental Marine Biology and Ecology, 2015, 471, 119-125.	0.7	0